WHAT IS CLAIMED IS

1. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps of:

(a) setting a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium depending on the write and/or erase power.

2. The write and/or erase method as claimed in claim 1, wherein said step (a) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

3. The write and/or erase method as claimed in claim 1, wherein said step (a) also sets an off-track detection time constant depending on the write and/or erase power.

4. The write and/or erase method as claimed in claim 1, wherein said step (a) also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

5. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps of:

(a) setting a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to a track on the recording medium depending on the write and/or erase power.

6. The write and/or erase method as claimed in claim 5, wherein said step (a) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power or,

7. The write and/or erase method as claimed in claim 5, wherein said step (a) also sets an off-track detection time constant depending on

the write and/or erase power.

8. The write and/or erase method as claimed in claim 5, wherein said step (a) also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

9. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps of:

(a) setting at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

10. The write and/or erase method as claimed in claim 9, wherein a dependency of the write parameters with respect to the write power is

different from a dependency of the erase parameters with respect to the erase power.

11. The write and/or erase method as claimed in claim 9, further comprising the step of:

(b) judging a type of the recording medium,

said step (a) being carried out when said step (b) judges that the recording medium is a high-density recording medium.

12. A storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising:

a setting section for setting a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium depending on the write and/or erase power.

13. The storage apparatus as claimed in claim 12, wherein said setting section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

14. The storage apparatus as claimed in claim 12, wherein said setting section also sets an off-track detection time constant depending on the write and/or erase power.

15. The storage apparatus as claimed in claim 12, wherein said setting section also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

16. A storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising:

a setting section for setting a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to a track on the recording medium depending on the write and/or erase power.

17. The storage apparatus as claimed in claim 16, wherein said setting section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

18. The storage apparatus as claimed in claim 16, wherein said setting section also sets an off-track detection time constant depending on the write and/or erase power.

19. The storage apparatus as claimed in claim 16, wherein said setting section also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

20. A storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising:

a setting section for setting at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

21. The storage apparatus as claimed in

claim 20, wherein a dependency of the write parameters with respect to the write power is different from a dependency of the erase parameters with respect to the erase power.

22. The storage apparatus as claimed in claim 20, further comprising:

a judging section for judging a type of the recording medium,

said setting section setting said at least one parameter when said judging section judges that the recording medium is a high-density recording medium.